



Downtown District Cooling Expansion

Austin Energy
Utility Oversight Committee
March 28, 2018

Jim Collins, Director
On-Site Energy Resources





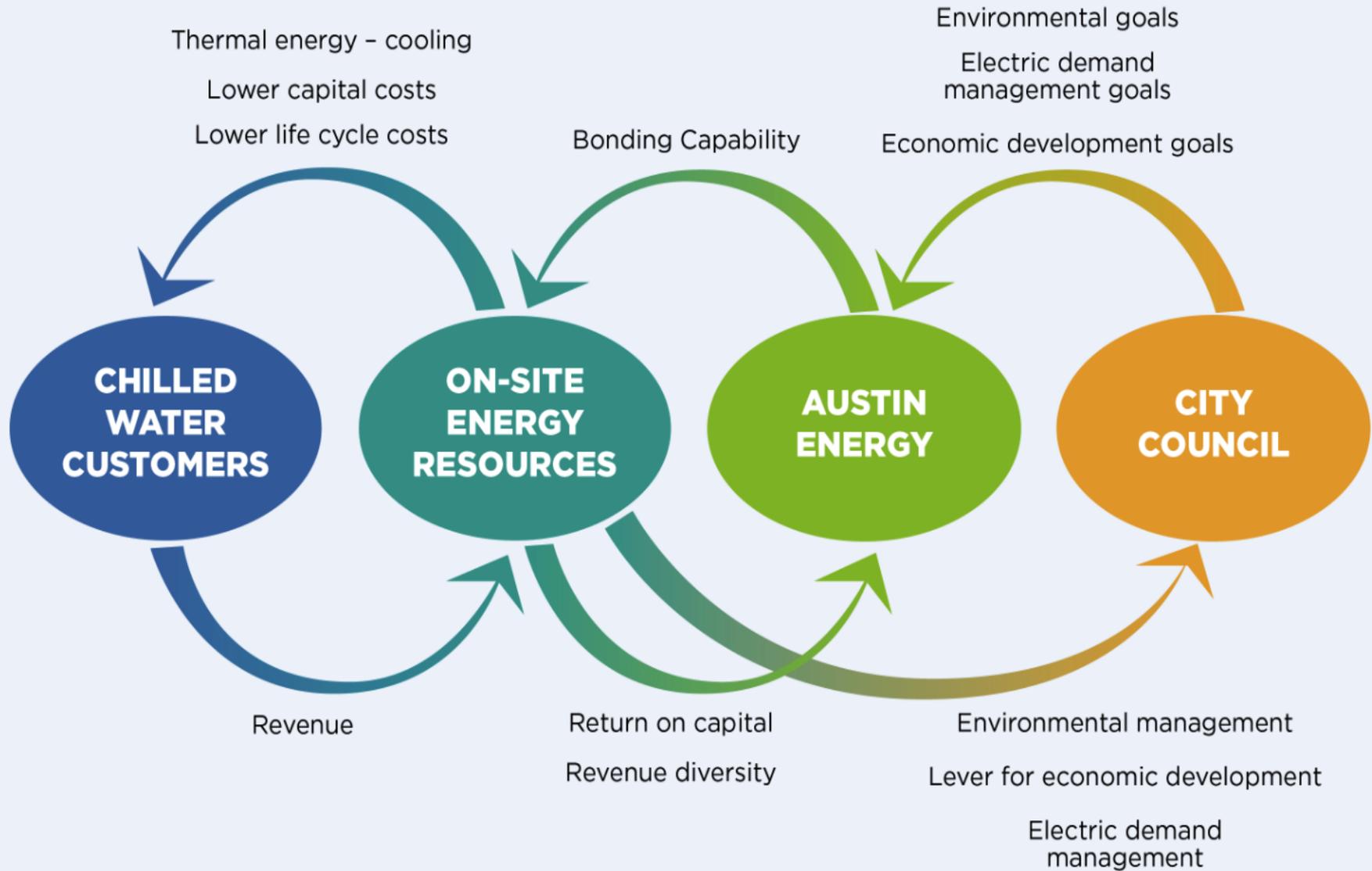
District Cooling



- An underground network of pipes providing chilled water to meet the cooling needs of multiple buildings
- Gathering load generates superior energy savings, reliability and quality
- Thermal storage element shifts electric demand to off-peak



District Cooling Value Chain





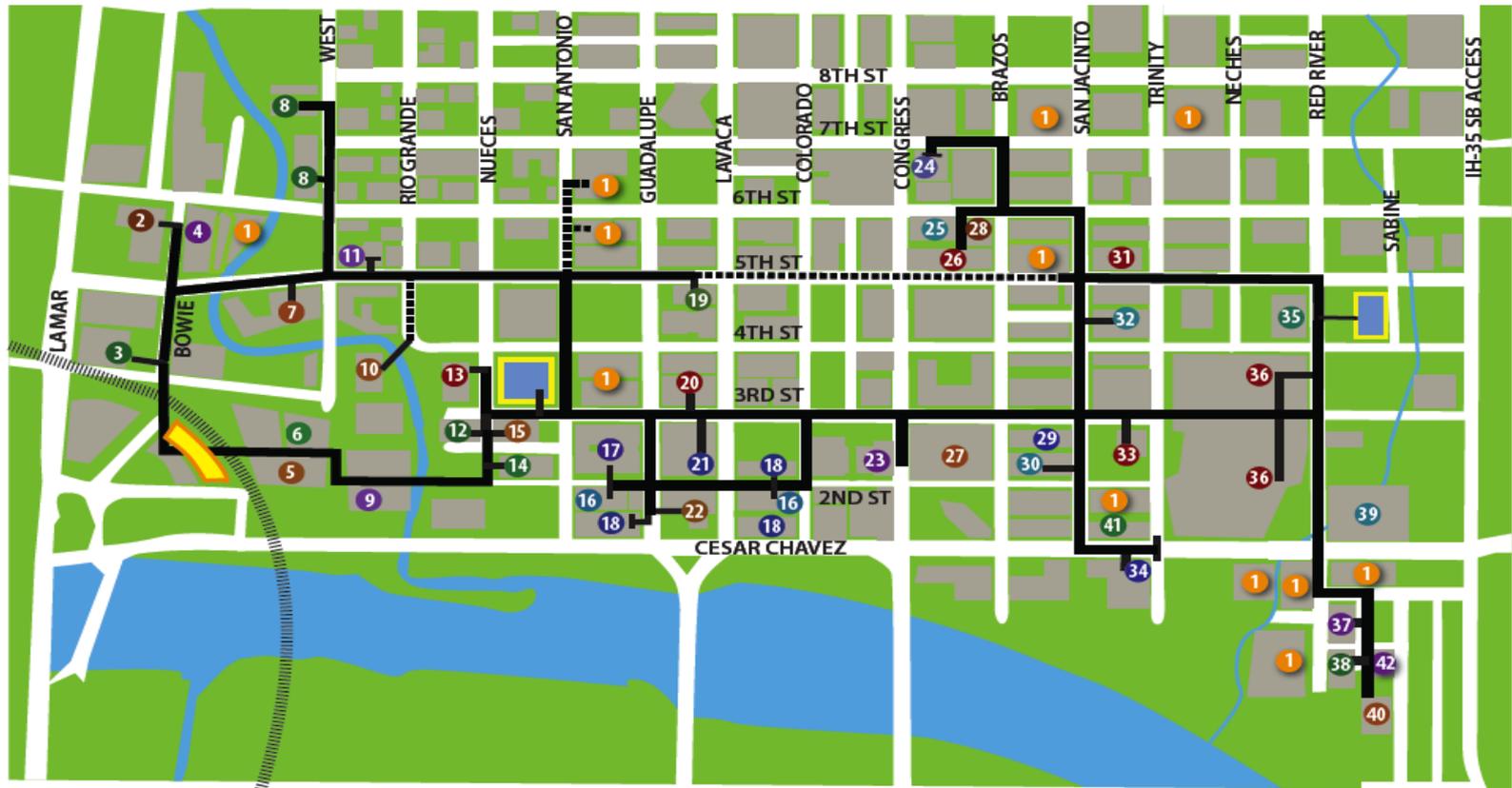
2017 Snapshot

- District Cooling Program has connected 70 customers
- Over 19 million square feet of facilities (i.e., 165 City Halls)
- Summer of 2017 provided 17.2 MW demand shift toward Austin Energy's Resource, Generation and Climate Protection Plan goal of 30 MW of thermal energy storage by 2027





Downtown District Cooling Customers



- | | | | | | |
|----------------------|-----------------------|-----------------------------|-------------------------|---------------------------|----------------------------|
| 1 Future | 6 Seaholm Residences | 11 5th & West | 18 AMLI Retail | 25 515 Congress | 33 Restaurants |
| 2 Whole Foods | 7 Monarch | 12 208 Nueces | 19 Plaza Loft | 26 501 Congress | 34 Four Seasons Residences |
| 3 Spring | 8 Cirrus Logc | 13 Austin 360 | 20 Hobby Building | 27 JW Marriott Hotel | 35 Hilton Hotel |
| 4 Shoal Creek Walk | 9 New Central Library | 14 500 W. 2nd | 21 W Hotel & Residences | 28 The Littlefield Retail | 36 Convention Center |
| 5 Athena Health | 10 The Independent | 15 Ballet Austin | 22 City Hall | 29 Hyatt Place Hotel | 37 Van Zandt Hotel |
| CHILLER PLANTS | EXISTING PIPE | 16 Silicon Labs | 23 Austonian | 30 Hampton Hotel | 38 The Shore |
| FUTURE CHILLER PLANT | FUTURE PIPE | 17 AMLI Apartments & Retail | 24 ALoft/Element Hotel | 31 WestIn Hotel | 39 Fairmont Hotel |
| | | | | 32 Marriott Hotel | 40 70 Rainey |
| | | | | | 41 Marriott Hotel |
| | | | | | 42 80 Rainey |

Rev. 3/20/18



Crescent Tract – District Cooling Plant #3





View from César Chávez / Electric Drive



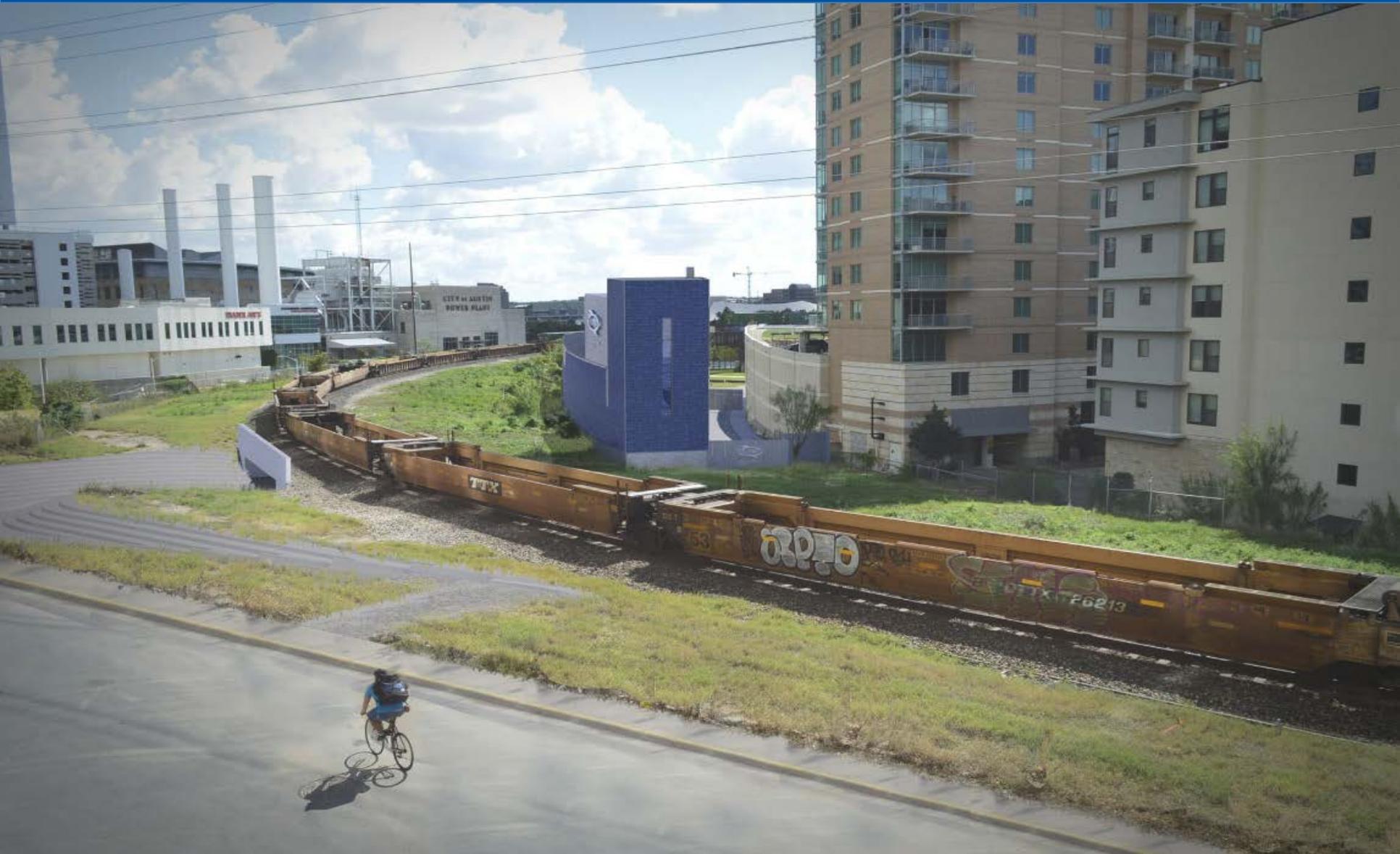


View from Trader Joe's





View from 3rd Street





Crescent Tract – District Cooling Plant #3

- April 26, 2018 - Council Actions

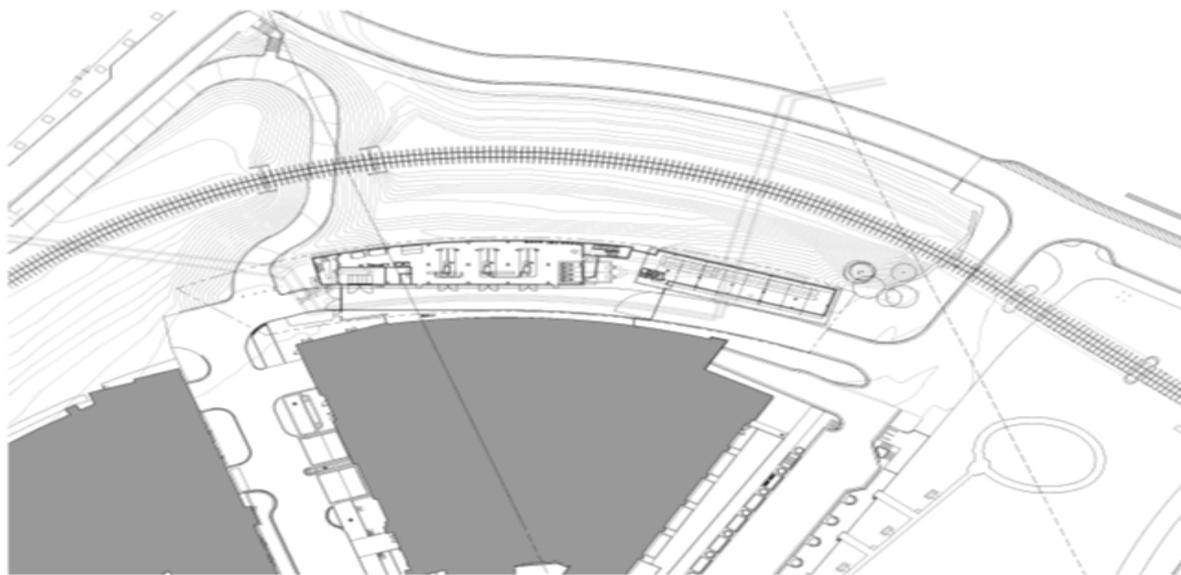
Construction Contract – \$49 Million

Cost within expectations

Construction schedule: 24 months

Support of Commissions and Neighborhood

Engineering/Construction Services – \$952,000





Thank you!



Jim Collins, P.E.

Director, On-Site Energy Resources

jim.collins@austinenergy.com

Phone: 512-322-6426